

## ABSTRACT

The invention relates to a fluorescence measuring apparatus to which a CCD camera capable of measuring fluorescent components emitted from a specimen corresponding to excitation pulse components emitted at regular intervals toward the specimen is applied. The fluorescence measuring apparatus has at least a CCD and a controller. The CCD includes photoelectric converters for implementing photoelectric conversion of the fluorescent components emitted from the specimen, and charge storage elements for storing and transferring charges resulting from the photoelectric conversion by the photoelectric converters. The controller outputs an electronic shutter signal for sweeping away the charge resulting from the photoelectric conversion by each photoelectric converter, a readout signal for reading the charge resulting from the photoelectric conversion, to the charge storage element, and a transfer signal for sequentially transferring the charge thus read. In particular, the controller outputs the electronic shutter signal corresponding to generation of each excitation pulse component, outputs the readout signal corresponding to output of the electronic shutter signal, and outputs the transfer signal per predetermined number of readout signals outputted.

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